

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/01917

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ C12N15/29, C12N9/88, C12N15/60, C12N5/14, A01H5/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ C12N15/29, C12N9/88, C12N15/60, C12N5/14, A01H5/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

SwissProt/PIR/GeneSeq, MEDLINE (STN), WPI (DIALOG),
Genbank/EMBL/DDBJ/GeneSeq, BIOSIS (DIALOG)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|--|-----------------------|
| Y | WO 01/85970 A2 (UNIV LOUISIANA STATE & AGRIC & MECH COLL), 15 November, 2001 (15.11.01), & EP 1280928 A2 & AU 200161358 A | 1-7 |
| Y | Bernasconi P. et al., A naturally occurring point mutation confers broad range tolerance to herbicides that target acetolactate synthase., J.Biol.Chem. (1995), Vol.270, No.29, pages 17381 to 17385 | 1-7 |
| Y | Mourad G. et al., Intragenic recombination in the CSR1 locus of Arabidopsis., Mol.Gen.Genet. (1994), Vol.243, No.2, pages 178 to 184 | 1-7 |

☒ Further documents are listed in the continuation of Box C.☐ See patent family annex.

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|---|--|
| * Special categories of cited documents: | "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention |
| "A" document defining the general state of the art which is not considered to be of particular relevance | "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone |
| "E" earlier document but published on or after the international filing date | "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art |
| "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) | "&" document member of the same patent family |
| "O" document referring to an oral disclosure, use, exhibition or other means | |
| "P" document published prior to the international filing date but later than the priority date claimed | |

Date of the actual completion of the international search
12 March, 2003 (12.03.03)Date of mailing of the international search report
25 March, 2003 (25.03.03)Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

Facsimile No.

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|--|-----------------------|
| Y | David CHIPMAN et al., Biosynthesis of 2-aceto-2-hydroxy acids: acetolactate synthases and acetohydroxyacid synthases., Biochim.Biophys.Acta (1998), Vol.1385, pages 401 to 419 | 1-7 |
| Y | Chong CK. et al., Role of tryptophanyl residues in tobacco acetolactate synthase., Biochem.Biophys.Res.Comm. (1999), Vol.259, No.1, pages 136 to 140 | 1-7 |
| Y | Chong CK. et al., Amino acid residues conferring herbicide tolerance in tobacco acetolactate synthase., Biochem.Biophys.Res.Comm. (2000), Vol.279, No.2, pages 462 to 467 | 1-7 |
| Y | Kathleen Y. LEE et al., The molecular basis of sulfonylurea herbicide resistance in tobacco., The EMBO J. (1988), Vol.7, No.5, pages 1241 to 1248 | 1-7 |
| A | WO 02/44385 A1 (Kumiai Chemical Industry Co., Ltd.), 06 June, 2002 (06.06.02), & AU 200214303 A | 1-7 |